

Kim - Please file
Torrance - Traffic
CALTRANS
Relinquishment
of Easement

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
STANDARD ENCROACHMENT PERMIT APPLICATION
 TR-0100 (REV. 11/94)

RELINQUISHMENT

1198D

Permission is requested to encroach on the State Highway Right-of-Way as follows: (Complete all items: NA if not applicable)
 Application is not complete until all required attachments are included.

FOR CALTRANS USE					
PERMIT NO.					
1. LOCATION: CITY Los Angeles		2. COUNTY Los Angeles		3. ROUTE SR-91	
4. POST MILE 5.5 - 6.0		5. APPLICATION DATE 12/15/99		6. ADDRESS OR STREET NAME Artesia Boulevard	
7. CROSS STREET (Distance and direction from site) Normandie Avenue and Vermont Avenue					
8. PORTION OF RIGHT OF WAY Traffic Signals					
9. WORK TO BE PERFORMED BY <input type="checkbox"/> OWN FORCES <input checked="" type="checkbox"/> CONTRACTOR		10. EST. START DATE 6/1/2000		11. EST. COMPLETION DATE 12/31/2000	
12. EST. COST IN STATE R/W \$39,000					
EXCAVATION		13. MAX. DEPTH N/A		14. AVG. DEPTH N/A	
PIPPES		15. AVG. WIDTH N/A		16. LENGTH N/A	
18. TYPE N/A		19. DIAMETER N/A		20. VOLTAGE/PRESSURE N/A	
				21. PRODUCT N/A	

22. FULLY DESCRIBE WORK WITHIN STATE R/W (additional space on reverse side if needed): Attach complete plans (minimum 5 sets folded 21.6 centimeter X 28 centimeter (8.5" X 11")) specs, calcs, Maps, etc., if applicable.

Normandie Avenue will be restriped to provide southbound dual left-turn lanes at Artesia Boulevard (SR-91). Incidental changes to the traffic signal within the state right-of-way will be required. Similar changes to Vermont Avenue are proposed to provide dual northbound left-turn lanes. Incident signal and island modifications will be required within the State right-of-way.

YOUR OWN REFERENCE NO. _____

Has any other Caltrans Department reviewed your plans? ☐ Yes ☐ No

23. Is any work being done on applicant's property? ☐ YES ☒ NO (If "YES", briefly describe in Section #22, and attached site and grading plans.)

24. Is a city, county, or other public agency involved in the environmental approval?

☒ YES (Check documentation type and attach approved copy) ☐ EXEMPT ☐ N.D. ☒ EIR
☐ NO (Check a category below in Section 24a., which describes the project)

24a.

- | | | |
|--|--|---|
| <input type="checkbox"/> FLAGS, SIGNS, BANNERS, DECORATIONS, PARADES AND CELEBRATIONS | <input type="checkbox"/> CONSTRUCTION/MODIFICATION OF SIGNALS OR ANY OTHER TRAFFIC CONTROL SYSTEMS AND DEVICES, INCLUDING ADDITION OF NEW ELEMENTS | <input type="checkbox"/> CONSTRUCTION, RECONSTRUCTION, MAINTENANCE OR RESURFACING OR A DRIVEWAY OR REAL APPROACH |
| <input type="checkbox"/> DITCH PAVING | <input type="checkbox"/> PUBLIC UTILITY MODIFICATIONS, EXTENSIONS, HOOKUPS | <input type="checkbox"/> ADDITION OR REPLACEMENT OF ROADWAY DEVICES OR MARKINGS (GLARE SCREEN, BARRIERE, LIGHTING, STRIPING, MARKERS, ETC.) |
| <input type="checkbox"/> FENCE | | <input type="checkbox"/> MOVIE, TV FILMING AND SURVEY |
| <input type="checkbox"/> MAILBOX | | <input type="checkbox"/> EROSION CONTROL |
| <input type="checkbox"/> SIDEWALKS/GUTTERS | | |
| <input type="checkbox"/> REPAIR/MAINTENANCE OF EXISTING HIGHWAYS | | |
| <input type="checkbox"/> NONE OF THE ABOVE (if project cannot be described in the above categories, request application Part "B" from the Permit Office) | | |

24b. Does this project cause a substantial change in the significance of a historical resource? ☐ YES ☒ NO (If "YES", request application Part "B" from the Permit Office)

24c. Is the project on an existing highway or street where the activity involves removal of a scenic resource including a stand of trees, a rock outcropping or a historic building? ☐ YES ☒ NO (If "YES", request application Part "B" from the Permit Office)

The undersigned agrees and understands that a permit can be denied or a bond required for non-payment of prior or present permit fees, that the work will be done in accordance with Caltrans rules and regulations subject to inspection and approval, and that permit fees may still be due when an application is withdrawn or denied.

25. ORGANIZATION OR APPLICANT NAME (Print or Type) Boeing Realty Corporation		26. BUSINESS PHONE (562) 627-3014	
27. ARCHITECT, ENGINEER OR PROJECT MANAGER NAME (Print or Type) George Rhyner, Crain & Associates		28. BUSINESS PHONE (310) 473-6508	
29. APPLICANTS ADDRESS (Include City and Zip Code) 4060 Lakewood Boulevard, Sixth Floor, Long Beach, CA 90808-1700			
30. AUTHORIZED SIGNATURE	31. PRINT OR TYPE NAME Mario Stavale	32. TITLE Project Manager	33. DATE

PERMIT ENGINEERING EVALUATION REPORT

TR-0112 (REV. 8/94)

HOURS FOR PREPARING:	PERMIT NO.:
DATE: 12/15/99	DIST/CO/RTE/PM: 07/LA/91/5.51
EA USED: Harbor Gateway Center	APPLICANT: Boeing Realty Corporation

1. DESCRIBE PERMIT PROPOSAL, WHAT IT SERVES, APPROXIMATE COST.

Artesia Boulevard (SR-91) passes north of the 170-acre multi-use retail/industrial facility being constructed on the site of a former Boeing Aircraft manufacturing facility. As part of the Harbor Gateway Center traffic mitigation recommendations, projected traffic conditions would require southbound lanes on Normandie Avenue to be restriped for dual left turn lanes. Northbound Normandie Avenue lanes would be adjusted to match lane changes on the north side of the intersection, allowing for a smooth through traffic flow. These changes will take place to the City of Gardena facilities. No existing lane markings in the State right-of-way will be changed. The City of Gardena controls the signalization of the intersection. One existing signal pole and mast arm will be replaced on the southwest corner of Normandie Avenue. All northbound and southbound Normandie Avenue mastheads will be replaced and upgraded from eight-inch to twelve-inch lenses. Loop detectors in Normandie Avenue at Artesia Boulevard will also be replaced. The cost of improvements would be \$15,765 to be born by the applicant. See Attachment A.

2. DESCRIBE EXISTING HIGHWAY - BRIEF ANALYSIS OF IMPACT ON HIGHWAY OPERATION, AND MAINTENANCE.

The Normandie Avenue and Artesia Boulevard (SR-91) intersection located in the City of Gardena. Signals at this intersection are controlled by Gardena. At the intersection, Artesia Boulevard has three through lanes, one shared through and right turn lane, and two left turn lanes. An existing center divider separates eastbound from westbound traffic. Northbound Normandie Avenue contains a dedicated right turn lane, two through lanes and one left turn lane. A painted median separates the dedicated right turn lane from the number one through lane. Southbound Normandie Avenue contains two through lanes, one shared through and right turn lane, and one dedicated left turn lane. The proposal would improve traffic operations at this intersection. These changes will have no appreciable impacts on highway maintenance which are already part of existing programs.

3. ANALYSIS OF PERMIT PROPOSAL FOR GEOMETRIC AND FUNCTIONAL ADEQUACY.

No geometric changes will take place in the State right of way. The additional southbound left turn lane on Normandie Avenue will accommodate future traffic volumes, as shown in the results of the critical movement analysis summary for the intersection of Normandie Avenue and Artesia Boulevard (see Attachment C).

3a. NON-STANDARD DESIGN FEATURES?

If YES above, provide rationale, name and date of Project Development reviewer's concurrence. (on Federal Aid Projects, FHWA concurrence)

YES ☐ NO ☒**4. REVISION IN ACCESS CONTROL OR TRANSFER OR R/W TO PERMITTEE INVOLVED:**YES ☐ NO ☒**4a. IF YES, DATE OF DISTRICT DIRECTOR APPROVAL****4b. IF INTERSTATE, DATE OF FHWA APPROVAL****5. SIGNALIZATION INVOLVED:**☒ YES☐ NO

If yes, signal warrants met
(see Attachment B)

☐ YES☐ NO*☒ NOT APPLICABLE

Capacity Analysis OK
(see Attachment C)

☒ YES☐ NO*☐ NOT APPLICABLE

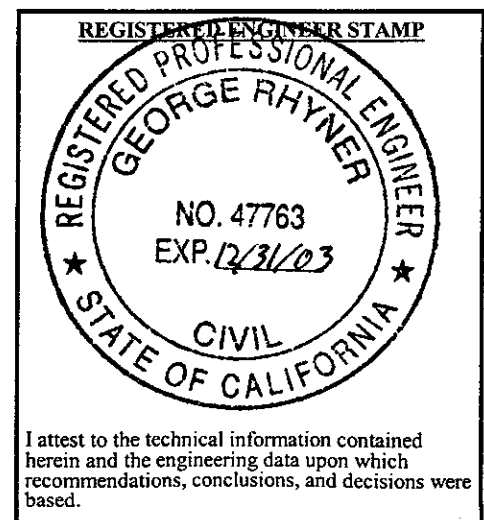
Safety Analysis OK

☒ YES☐ NO*☐ NOT APPLICABLE

Ownership/Maintenance provisions OK
(to be transferred to City of Los Angeles)

☐ YES☐ NO*☒ NOT APPLICABLE

* address comments on an attached sheet)

**PERMIT PROPOSAL RECOMMENDED**

☐ Yes, as submitted ☐ Yes, with conditions described above ☐ No, as described above

PREPARED BY	TITLE	UNIT	SIGNATURE OF REGISTERED ENGINEER
APPROVED BY	TITLE	DATE	DATE 12/15/99

ATTACHMENT "A"

Normandie Avenue and Artesia Boulevard
Preliminary Construction Cost Estimates

<u>Construction Item</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Cost</u>
<u>Removal</u>			
Double yellow	200 L.F.	\$1.65	\$330
4 inch white dash	800 L.F.	\$0.27	\$216
<u>Install</u>			
4 inch white dash	880 L.F.	\$0.21	\$185
8 inch white	500 L.F.	\$1.05	\$525
Double yellow	500 L.F.	\$0.23	\$115
White arrows	2 each	\$50	\$100
Cat Track	150 L.F.	\$1.05	\$158
Signal modification	L.F.	\$	<u>\$11,000</u>
Subtotal			\$12,612
Plus 25% Contingency Factor:			<u>\$3,153</u>
Total			<u>\$15,765</u>
Say			\$16,000

ATTACHMENT “C”

CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, Artesia Bl. and Normandie Ave.
DATE: 04-19-1996 INITIALS: EA PERIOD: AM Peak Hour
CASE: Existing (1996)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS MIN ON GREEN	** MAX ON RED
WESTBOUND	236	1760	265	0
EASTBOUND	125	1746	96	0
NORTHBOUND	153	678	56	142
SOUTHBOUND	273	639	78	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
WESTBOUND	2	0	2	1	0	0	5
EASTBOUND	2	0	3	1	0	0	6
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
WESTBOUND	130	N/A	675	675	N/A	N/A
EASTBOUND	69	N/A	460	460	N/A	N/A
NORTHBOUND	153	N/A	339	N/A	56	N/A
SOUTHBOUND	273	N/A	358	358	N/A	N/A

EAST-WEST CRITICAL VOLUMES	744
NORTH-SOUTH CRITICAL VOLUMES	612

THE SUM OF CRITICAL VOLUMES	1356
NUMBER OF CRITICAL CLEARANCE INTERVALS	4
CMA VALUE	0.986
LEVEL OF SERVICE	E

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CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, Artesia Bl. and Normandie Ave.
DATE: 04-19-1996 INITIALS: EA PERIOD: PM Peak Hour
CASE: Existing (1996)

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	MIN ON GREEN	RIGHT TURNS MAX ON RED
WESTBOUND	208	1609	147	0
EASTBOUND	192	1880	61	0
NORTHBOUND	187	978	243	103
SOUTHBOUND	290	580	129	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
WESTBOUND	2	0	2	1	0	0	5
EASTBOUND	2	0	3	1	0	0	6
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	1	0	1	1	0	0	3

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
WESTBOUND	114	N/A	585	585	N/A	N/A
EASTBOUND	106	N/A	485	485	N/A	N/A
NORTHBOUND	187	N/A	489	N/A	243	N/A
SOUTHBOUND	290	N/A	354	354	N/A	N/A

EAST-WEST CRITICAL VOLUMES 691
 NORTH-SOUTH CRITICAL VOLUMES 779

 THE SUM OF CRITICAL VOLUMES 1470
 NUMBER OF CRITICAL CLEARANCE INTERVALS 4
 CMA VALUE 1.069
 LEVEL OF SERVICE F

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CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, Artesia Bl. and Normandie Ave.
DATE: 11-20-1997 INITIALS: EA PERIOD: AM Peak Hour
CASE: Future (2006) With Project Plus Mitigation

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS MIN ON GREEN	** MAX ON RED
WESTBOUND	281	2012	278	0
EASTBOUND	134	1833	114	0
NORTHBOUND	187	720	227	80
SOUTHBOUND	286	707	89	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
WESTBOUND	2	0	3	1	0	0	6
EASTBOUND	2	0	3	1	0	0	6
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	2	0	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
WESTBOUND	155	N/A	572	572	N/A	N/A
EASTBOUND	74	N/A	487	487	N/A	N/A
NORTHBOUND	187	N/A	360	N/A	227	N/A
SOUTHBOUND	157	N/A	398	398	N/A	N/A

EAST-WEST CRITICAL VOLUMES	646
NORTH-SOUTH CRITICAL VOLUMES	585

THE SUM OF CRITICAL VOLUMES	1231
NUMBER OF CRITICAL CLEARANCE INTERVALS	4
CMA VALUE	0.895
LEVEL OF SERVICE	D

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CRAIN AND ASSOCIATES
CMA CALCULATIONS

INTERSECTION: 20, Artesia Bl. and Normandie Ave.
DATE: 11-20-1997 INITIALS: EA PERIOD: PM Peak Hour
CASE: Future (2006) With Project Plus Mitigation

** INPUT VOLUMES **

APPROACH	LEFT	THROUGH	** RIGHT TURNS MIN ON GREEN	** MAX ON RED
WESTBOUND	250	1848	240	0
EASTBOUND	199	1950	69	0
NORTHBOUND	200	1084	397	69
SOUTHBOUND	301	635	159	0

** NUMBER OF LANES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED	TOTAL LANES
WESTBOUND	2	0	3	1	0	0	6
EASTBOUND	2	0	3	1	0	0	6
NORTHBOUND	1	0	2	0	1	0	4
SOUTHBOUND	2	0	1	1	0	0	4

** ASSIGNED LANE VOLUMES **

APPROACH	LEFT ONLY	LEFT SHARED	THROUGH ONLY	RIGHT SHARED	RIGHT ONLY	L/T/R SHARED
WESTBOUND	138	N/A	522	522	N/A	N/A
EASTBOUND	109	N/A	505	505	N/A	N/A
NORTHBOUND	200	N/A	542	N/A	397	N/A
SOUTHBOUND	166	N/A	397	397	N/A	N/A

EAST-WEST CRITICAL VOLUMES 643
 NORTH-SOUTH CRITICAL VOLUMES 708

 THE SUM OF CRITICAL VOLUMES 1351
 NUMBER OF CRITICAL CLEARANCE INTERVALS 4
 CMA VALUE 0.983
 LEVEL OF SERVICE E

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